Welcome to the 43rd Annual Bioassay Conference

The sponsors, organizing committee and participating vendors welcome you to the 43rd Annual Conference on Bioassay, Analytical, and Environmental Radiochemistry. This year our organizing committee has prepared a comprehensive schedule of technical presentations on important current issues as well as a full schedule of social functions. We hope that this year's conference will give us all the opportunity to exchange ideas and concepts that will lead to overall improvement in the quality of our scientific work, and will provide a social setting that will enable us all to get to know each other better.

This year's format will follow closely to that of Bioassay Conferences over the past several years. There will be Technical Workshops on Sunday and Monday, and the Bioassay Conference will begin on Tuesday.

Social activities will begin Sunday evening with a reception sponsored by Canberra Industries, Eichrom Industries, and Environmental Physics, Inc. which will be held at Environmental Physics. Bus transportation from the Francis Marion will be provided. The next major function will be the vendor reception on Monday night at the Francis Marion that is being sponsored by Eichrom Industries. Canberra Industries and Packard Instruments will sponsor a luncheon at the Francis Marion on Tuesday, and the final social function will be the Conference Beach Party on Wednesday evening on Sullivans Island. Bus transpiration from the Francis Marion Hotel will be provided.

In addition to these major functions, there will be a number of other social events. Continental Breakfast will be served each morning of the conference at the Francis Marion. There will be a Golf Tournament on Sunday morning that is being coordinated by Brian Crandall of Westinghouse Savannah River Company. There will be a complimentary hospitality suite at the Francis Marion on Tuesday night sponsored by Nuclear Technologies. There will be a Fun Run/Walk on Wednesday morning coordinated by Nancy Slater of Environmental Physics. And last, but certainly not least, there will be a special walking tour of Charleston for spouses on Tuesday morning that will be coordinated by my wife Charlotte.

During your stay, we encourage you to take advantage of the many attractions of Historic Charleston. The Francis Marion is within walking distance of the old sections of Charleston and you are only minutes away from charming alleys, beautiful anti-bellum homes, and an abundance of world-class restaurants.

We have included in your binder a map of the historic district of Charleston and some information on some of its fine restaurants and intriguing sites. Several restaurants have been chosen by the committee on the basis of quality and location and they have agreed to give special discounts to conference attendees. These restaurants are listed in the attached information. The Charleston Chamber of Commerce has kindly offered to maintain a booth in the conference registration area with information on Charleston and its many wonders.

We would like to give special thanks to our coordinators, sponsors, vendors, and speakers for their diligent efforts to make the 43rd Conference the best ever.



on Bioassay, Analytical Environmental Radiochemistry

ovember 9-13, 1997

P. O. Box 30712 Charleston, SC 29417

(803) *55*6-8171

Fax: (803) 766-1178

Sincerely yours,

Sponsored by :
Environmental Physics, Inc.
Westinghouse

Savannah River Company orida State University Eichrom Industries The College of Charleston Hymn & Claman Heyward H. Coleman

President, Environmental Physics

Conference Chairman

Sponsors

• Environmental Physics, Inc.

Charleston, SC

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Aiken, SC

• Florida State University

Tallahassee, FL

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Darien, IL

• College of Charleston

Charleston, SC

Coordinating Committee

Conference Chairman	Heyward H. Coleman	Environmental Physics, Inc.
Vendor Chairman	Mike Fern	Eichrom Industries
Technical Program Chairman	Dr. Bill Burnett	Florida State University
Workshop Chairman	Dr. Mohib (Mo) Khalil	Westinghouse Savannah River
Coordinating Chairman	Nancy Slater	Environmental Physics, Inc.
Workshop Program	Brian Crandal	Westinghouse Savannah River
Technical Program	Dr. Frank Kinard	College of Charleston
Social Program	Max Sparwasser	Environmental Physics, Inc.
Internet Home Page	Donivan Porterfield	Los Alamos National Laboratory

Vendors

3M	Acadia Insurance Company	American Radiation Services
Analytics	Aptec Nuclear	Chemcheck Instruments
Bioscan Inc.	Canberrra Industries	Barringer Laboratories
CEM Corporation	EG&G ORTEC	Eichrom Industries
Environmental Express	Environmental Physics	Gamma Products
Isotope Products Laboratories	Nuclear Technical Assoc.	Ordela
Outreach Laboratory	Oxford Instruments	Packard Instrument Company
Protean Instrument Corporation	Thermo NUtech	TVA Radiological Services
QST Environmental	Quanterra	Nuclear Technology Services
Pulcir, Inc.		

Session Chairmen

Bill Burnett	Larry Robinson	Frank Kinard
Myint Thein	Brian Crandall	Mike Schultz
Mo Khalil	Donivan Porterfield	Robin Young
Barry Stewart	Donna Beals	Gary Kramer

43rd Annual Bioassay Conference Schedule of Events November 9-13, 1997 Charleston, South Carolina

Sunday, November 9	Monday, November 10	Tuesday, November 11	Wednesday, November 12	Thursday, November 13
7:15—until Golf Outing		9:15—until Spouse ProgramTour of	6:15 am Historic Charleston Fun Run/Walk Sponsored by	
8:00-9:00	7:00-8:00	7:00-8:00	Environmental Physics, Inc. 7:00-8:00	7:00-8:00
Continental Breakfast	Continental Breakfast	Continental Breakfast	Continental Breakfast	Continental Breakfast
Mezzanine Level	Mezzanine Level	Colonial Room	Colonial Room	Mezzanine Level
8:00-7:00 pm		7:30-5:00	7:30-3:30	
Conference Registration	Con —	Conference Registration	Conference Registration and	
and Information	and Information	and Information	Information Mezzanine	
Mezzanine Level	Mezzanine Level	Mezzanine Level	Level	
9:00-12:00	8:00-12:00	8:00-12:00	8:00-11:40	8:00-12:00
Workshops	Workshops	Technical Presentations	Technical Presentations	Technical Presentations
Colonial Room	Colonial & Calhoun	Colonial Room	Colonial Room	Pinkney & Calhoun
		12:00-1:30		
12.00-1.30	12.00.1.15	Conference Luncheon	11.40 1.30	90,61
0.1.20.21 1 O V J	C1:1-00:21	sponsored by	11:40-1:30	00:71
Lunch Oil Tour Own	Lunch On Your Own	Canberra and Packard	Lunch On Your Own	End of Conference
		Gold Room		AAAAA
1:30-5:30	1:15-5:00	1:30-5:10	1:30-1:50	
Workshops	Workshops	Technical Presentations	Business Meeting	
Colonial & Calhoun	Colonial & Gold	Colonial Room	Founder's Award	***************************************
6:00-9:30		200200		
Reception sponsored by	5:30-7:30	5:30-7:30 Complimentary		
Canberra, Eichrom, &	Vendor Reception	Entertainment Suite	1:50-4:50	
Environmental Physics	sponsored by	sponsored by Nuclear	Technical Presentations	
(Buses depart from the	Ē	rechnology & Nevada	Colonial Room	
Francis Marion beginning	g Vendor Display Area	(Suite to be Announced)		
	5:30-7:30	8:00-5:10	8:00-3:30	
	Vendor Exhibition	Vendor Exhibition	Vendor Exhibition	
	Mezzanine Level	Mezzanine Level	Mezzanine Level	
	Managar Market		6:00-11:00 Beach Party on	
			Sullivan's Island (Buses	
***************************************			depart from the Francis	
	The second se		Marion beginning at 5:30)	

Description of Social Events

Sunday 7:15 a.m.--until Golf Outing

Sunday 6:00-9:30 p.m.

Reception at Environmental Physics, Inc. (2040 Savage Road, Charleston)

Join us at Environmental Physics, Inc. for cocktails and delicious lowcountry hors d'oeuvres. The reception is being hosted by Canberra Industries, Eichrom Industries, and Environmental Physics, Inc. Round-trip transportation will be provided, and buses will depart from the Francis Marion beginning at 5:30 p.m. Attire is casual.

Monday 5:30-7:30 p.m.

Vendor Reception located in the Vendor Display Area

Enjoy hot and cold hors d'oeuvres and an open bar while visiting the excellent displays provided by our twenty-six vendors. The vendor reception is being sponsored by Eichrom Industries.

Tuesday 9:15—until Spouse Program

Meet in the lobby of the Francis Marion at 9:15 a.m. for a day touring Charleston with your hostess, Charlotte Coleman. First, you will visit the Charleston Visitor's center where the DASH will take you to the Waterfront Park to begin the guided walking tour of Charleston. After the walking tour, a lowcountry seafood lunch will be provided at Hyman's. After lunch, the group will tour the Nathaniel Russell House, one of Charleston's finest historical landmarks. End the afternoon at the Coleman's home for tea and coffee. Also included in the spouse program are continental breakfasts, all of the evening receptions, and the beach party.

Tuesday 12:00-1:30

Conference Luncheon in the Gold Room

The Conference Luncheon speaker is Dr. Bill Reinig, who will discuss the history of Savannah River Site. Canberra Industries and Packard Instruments are the hosts for the Luncheon.

Wednesday 6:15 a.m.

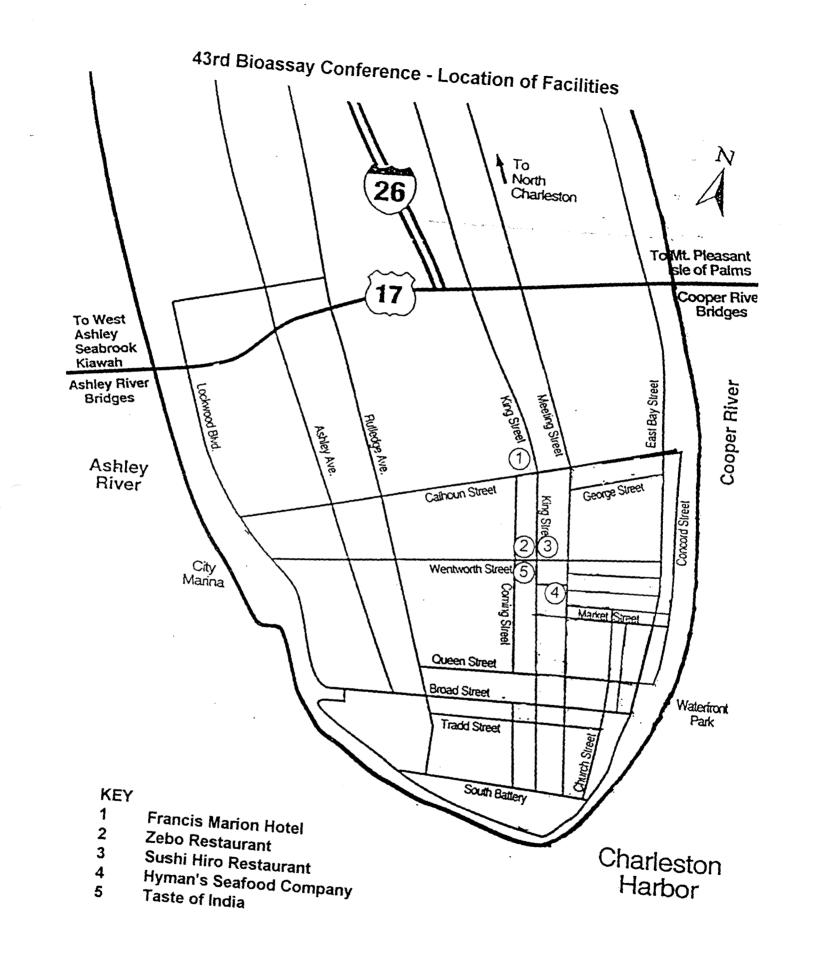
Historic Charleston Fun Run/Walk

Rise and Shine! Meet us in the lobby of the Francis Marion at 6:15 a.m. for a fun run/walk! Set your own pace for the 2.8-mile course through historic Charleston (beginning and ending at the Francis Marion). Each participant earns a t-shirt. The Fun Run/Walk is sponsored by Environmental Physics, Inc.

Wednesday 6:00-11:00 p.m.

Lowcountry Beach Party at the Citadel Beach House on Sullivan's Island

Enjoy an evening at a Sullivan's Island beachfront clubhouse for a lowcountry banquet featuring Frogmore Stew. The sound of the surf will be enhanced by live music by the Mike McSwain Group. Round-trip transportation is provided, and buses depart from the Francis Marion beginning at 5:30 p.m. Attire is casual.



Things to See and Do

Bicycle Rentals:

Charleston Bicycle Rentals, Inc.

48 John Street, Charleston, 29403

722-RIDE (7433)

Biking is the best way to see Charleston. Stay fit and have fun too! Ask about our free pickup and delivery to most locations in downtown Charleston. Next to the Visitor Center.

Charter Boats:

Aqua Safaris, Inc. Charter Yachts

P.O. Box 309, Isle of Palms, 29451

886-8133, 1-800-524-3444, FAX: 886-8133

Group Rates Available - yes

Affordable sail/power/fishing charter yachts, crewed and bare boat. Over 1000 yachts locally and worldwide. Day sails, golf/sail weekends. Worldwide term charters: Caribbean, Mediterranean. Greek Islands, South Pacific.

Bohicket Yacht Charters - 768-1280

Cape Romain Island Charters - 884-0448

Captain Ivan's Island Charters - 795-9192

Charleston Charter Co.

P.O. Box 1427, Charleston, 29402 762-7900, 1-800-786-0252, ext. 335

Group Rates Available - yes

Specialize charters to meet individual/group needs -from sunset cruises to burials at sea.

Charleston Yacht Sales

3 Lockwood Blvd., Ste. 201, Charleston, 29403 577-5050, 1-800-868-5060, FAX: 723-9829

Group Rates Available - yes

We offer sailing charters aboard 35'-50' captained yachts for 3 hours to a full day. The largest and oldest yacht broker in the Carolinas.

Fort Sumter Tours, Inc. - 722-1691

Gray Line Water Tours - 722-1112

Marsh Grass Charters, Inc.

1310 Ashley Hall Road, Charleston, 29407 556-6555

We price our charters by the number of people (up to 6). We offer bottom fishing for snapper & grouper or trolling for the big ones.

Saltwater Adventures

2412-B Marina Rd, Wadmalaw Island, SC 559-3794, PAGER: 769-1542

We offer fishing and/or pleasure charters, captained or bare boat, from under 20 to over 65 feet, for any occasion or time period.

Silver Dolphin Fishing - 556-3526

Southern Windjammer/Schooner PRIDE

2044 Wappoo Hall Road, Charleston, 29412 795-1180, FAX: 762-1342 Sail aboard Charleston's only tall ship - the 84 foot three masted Schooner PRIDE. For those who want to have a refreshing and relaxing harbor experience.

Sportn' Life Charters

Rt. 1, Box 50-D, Wando, SC 29492 881-3179

In-shore light tackle and fly fishing. Tours and day trips available for 1-4 persons.

Wild Dunes Yacht Harbor

41st Ave. at the Intracoastal Waterway

Isle of Palms, 29451

886-5100, FAX: 886-5609 ---

Resort marina and restaurant. Inshore-offshore fishing and sailboat charters, boat rentals and excursions. Dockside dining, private dining room, and outdoor events.

Events:

Charleston Area Arts Council

P.O. Box 21295, Charleston, 29413 566-0075

The Arts Council can provide information about the cultural opportunities available to your group while they are in Charleston.

Spoleto Festival U.S.A.

P.O. Box 157, Charleston, 29402 722-2764, FAX: 723-6383

Group Rates Available - ves

Celebrating dance, music, theater, opera, and the visual arts, from the classic to the contemporary, for 17 days in historic Charleston. Late May-early June.

Golf:

Charleston National Country Club - 884-7799

Crowfield Golf and Country Club

300 Hamlet Circle, Goose Creek, 29455 764-4618, FAX: 764-4534

Dunes West - 881-6060

Kiawah Island Resort - 768-2121 - space available

The Links at Stono Ferry

5365 Forest Oaks Dr., Charleston, 29449

763-1817, FAX: 763-1905

Charleston's premier public golf course -15 minutes from downtown. Stono Ferry offers the full amenities of a county club at an unbeatable price!

Municipal Course - 795-6517 - public

Patriots Point Links

100 Clubhouse Drive, Mt. Pleasant, 29464

881-0042

Group Rates Available - yes

Patriots Point Links offers a scenic setting overlooking Charleston Harbor. This harborside course will challenge any level of player...a true pleasure to play.

Pine Forest Country Club

1000 Congressional Blvd, Summerville, 29483

851-1193, FAX: 851-2857

Nominated for best new golf course in South Carolina. 18 hole, par 72 championship design by Bob Spence.

Things to See and Do

Shadowmoss Plantation Golf Club

20 Dunvegan Drive, off Hwy. 61 North, Charleston, 29407 556-8251, 1-800-338-4971

Relaxing atmosphere nestled within the historic beauty of Charleston.

Seabrook Island - 768-1000 - private

Snee Farm - 884-8571 - private

Wild Dunes Resort - 886-6000

Historic Homes & Buildings:

The Charleston Museum's Aiken-Rhett House

48 Elizabeth Street, Charleston 29403

723-1159, FAX: 722-1784 Group Rates Available - yes

Home of Gov. William Aiken, 1833-1887. Used by Confederate General P.G.T. Beauregard during the 1864 bombardment as headquarters. Greek and Rococo Revival styles used.

The Avery Research Center for African-American History & Culture

125 Bull Street, Charleston, 29424

727-2009, FAX: 727-2017

Research Center & Museum that documents African-American historical and cultural contributions in SC Lowcountry. Beautiful historic building (c.1865); 1990 Carolopolis Award.

The College of Charleston - 792-5507

The Dock Street Theatre - 723-5648

Edmondston-Alston House

21 East Battery - 722-7171

The Thomas Elfe House - 722-2130

Old Exchange Building & Provost Dungeon

122 East Bay Street, Charleston, 29401

727-2165, FAX: 727-2163

Over 300 years of Pirates, Patriots, Presidents, and Preservation. One of 3 most important buildings in American History.

Fort Moultrie, A unit of Fort Sumter National Monument

1214 Middle St., Sullivan's Island

883-3123

At Fort Moultrie you can experience 171 years of coastal military history. The fort defended Charleston's harbor from the Revolutionary War through World War II.

The Charleston Museum's Heyward-Washington House

87 Church Street, Charleston, 29401

722-0354, FAX: 722-1784 Group Rates Available - yes

Built in 1772 by prominent rice planter Daniel Heyward. Furnished with rare Charleston pieces. 18th century house with original kitchen, carriage house, and necessary buildings.

The Charleston Museum's Joseph Manigault House

350 Meeting Street, Charleston, 29401

723-2926, FAX: 722-1784 Group Rates Available - yes

Designed by wealthy rice planter Gabriel Manigault, built in 1803. One of the best examples of Adam-style architecture. Furnished with Charleston, American, English, and French pieces.

Nathaniel Russell House

51 Meeting Street, Charleston, 29401 723-1623

Museums & Galleries:

American Military Museum - 723-9620

The Citadel Museum - 792-6846

The City Hall Gallery

The Charleston Museum

360 Meeting Street, Charleston, 29403

722-2996, FAX: 722-1784

Group Rates Available - yes

America's first and oldest museum that interprets the social and natural history of the South Carolina Lowcountry. Special temporary exhibits and a "Discovery Room" for children."

The Confederate Museum - 723-1541

Gibbes Museum of Art

135 Meeting Street, Charleston, 29401

722-2706, FAX: 723-1721

Offers one of the finest collections of American paintings in the Southeast, portraits, local and regional historic paintings, and portrait miniatures. Museum shop available.

Patriots Point Naval & Maritime Museum

40 Patriots Point Rd., Mt. Pleasant, 29464

884-2727

Patriots Point is the world's largest naval & maritime museum. Five ships, including the aircraft carrier Yorktown, are open for touring. Twenty aircraft. Vietnam Naval Support Base exhibit.

Nightlife:

JukeBox

Vendue Range, Charleston, 29401 723-3431

Windjammer - 886-8596

Plantations, Parks, and Gardens:

Charles Towne Landing 1670

1500 Old Towne Road, Charleston 29407

556-4450

Birthplace of South Carolina - First permanent English settlement in South Carolina - Passive park.

Drayton Hall

3380 Ashley River Road, Charleston, 29414

766-0188, FAX: 766-0878

Considered one of the finest examples of colonial architecture in the nation, Drayton Hall is the only surviving plantation home on the Ashley River and is preserved in almost original condition after over 250 years.

Fort Sumter

1214 Middle Street, Sullivan's Island 883-3123

Fort Sumter - first shots of the Civil War.

Magnolia Plantation and Gardens/Audubon Swamp Garden

Hwy. 61, Charleston, 29407

571-1266

Catering Services Available - yes

Group Rates Available - yes

Magnolia Plantation's gardens have been described as the "world's most beautiful" and are planted for year-round bloom. Audubon Swamp Garden allows an up-close view of wildlife in a natural setting.

Middleton Place

Ashley River Road, Charleston, 29414 556-6020, 1-800-782-3608, FAX: 766-4460 Private Banquet Rooms Availableyes Seating Capacity......125 Meals Servedlunch Catering Services Available......ves Group Rates Available......yes Visit America's oldest landscaped gardens, now celebrating 250

years, the working plantation stableyards, and the Middleton Place House museum.

Recreation:

Charleston Jewish Community Center

1645 Raoul Wallenberg Blvd., Charleston 29407 571-6565, FAX: 556-6206

Family oriented...full size gymnasium, fitness center and nautilus circuits, contains cardiovascular room, free weights, aerobic classes, and outdoor olympic-sized pool.

Eagle Balloons

100 Broadmarsh Ct., Charleston, 29418 552-3782

Soar above the treetops, at wind's speed for approximately one hour, and enjoy a breathtaking panoramic view of Charleston's Lowcountry. Our pilots are FAA certified. We fly year round, weather permitting. Reservations are required. Please call for further details.

Kids on the Go

P.O. Box 44, Isle of Palms, 29451 883-9491

An invaluable family guidebook set: Kids on the Go: Great Places to Take Kids in The Charleston Area and Great Places to Dine with Kids.

St. Andrew's Family Recreation Center

1642 Sam Rittenberg Blvd., Charleston, 29407 763-3850

A full-service health and fitness center available on a daily basis. Enjoy aerobics classes, racquetball, indoor swimming, Nautilus and free weights, cardiovascular equipment, and more.

South Carolina Stingrays

North Charleston Coliseum, North Charleston 29418 744-BAIT, FAX 744-2898

Professional Ice Hockey at the new North Charleston Coliseum. 34 home games from late October until early April.

Restaurants:
A.W. Shucks, Downtown 35 Market St. & 70 State St. 723-1151, FAX: 720-2102 Seating Capacity
Aaron's Deli - 723-6000
Applebee's Restaurant/North Charleston - 553-8137
Applebee's Restaurant/Charleston - 723-3531
Applebee's Restaurant/West Ashley 1859 Sam Rittenberg Blvd., Charleston, 29407 556-6421 Seating Capacity
Arizona Bar & Grill - 577-5090
B. J.'s Broad Street Cafe 17 Broad Street, Charleston, 29401 722-0559 Private Banquet Rooms Available
Baker's Cafe of Charleston, Inc 577-2694
Blue Coyote Grille 61 State Street, Charleston, 29401 577-2583, FAX 720-2102 Seating Capacity

Patio Capacityup to 300 Meals Servedlunch/dinner Location Historic Market area Lively Southwestern restaurant and night club featuring quesadillas, fajitas, and country line dancing.

Bocci's Italian Restaurant

158 Church Street, Charleston, 29401 720-2121, FAX: 720-2102 Private Banquet Rooms Availableyes Seating Capacity......20 Meals Served.....lunch/dinner Group Rates Availableno Laid-back Italian dining with old world charm. Hand pulled mozzarella and pastas made on-premise contribute to both classic and contemporary dishes for a memorable meal. Voted "Top 10" locally.

Things to See and Do

	Grand Rollsserie. Serving breakfast, tanen, and anner daity.
	Hyman's Seafood Company - 723-0233
	J. Ryan's Seafood Restaurant - 763-4494
Cappy's Seafood Restaurant	Josie Joe's on the Water
2408 Maybank Hwy, Johns Island, 29455	1313 Shrimp Boat Ln., Mt. Pleasant, 29464
559-3552	884-0838, FAX: 884-5483
Private Banquet Room Availableno	Private Banquet Rooms Availableyes
Meals Servedlunch/dinner	Meals Servedlunch/dinner
Catering Services Availableyes LocationIsland Resorts	Catering Services Availableyes
Waterfront dining at Buzzard's Roost Marina. Enjoy our deli-	LocationEast Cooper/Mt. Pleasant
cious, fresh local seafood or our featured Lowcountry cuisine.	We offer a variety of seafood, salads, and sandwiches. Enjoy
Carolina's - 724-3800	cocktails and appetizers by the pool. Come by land or sea and experience an unforgettable sunset.
Celia's Porta Via - 722-9003	Kyoto Japanese Restaurant - 571-6025
Colony House Restaurant	Le Midi - 577-5571
35 Prioleau at the Waterfront Park, Charleston, 29401	
723-3424, FAX: 724-3807	The Library at Vendue
Private Banquet Rooms Availableyes	23 Vendue Range, Charleston, 29401
Banquet Capacityup to 200	723-0485, FAX: 722-8381
Reception Capacity350	Private Banquet Facilities Availableyes
Meals Servedlunch/dinner	Meals Serveddinner
Catering Services Availableyes	Catering Services Availableyes
LocationPeninsula City	LocationPeninsula City
Charleston's oldest, located across from the new Waterfront	Progressive American Cuisine in the Vendue Inn Library. Roof
Park.	top bar and dining overlooking the Charleston Harbor.
Tommy Condon's Irish Restaurant and Pub	Little Caesars Pizza
160 Church St., Charleston 29401	Charleston Area
577-3818	571-3764
Private Banquet Room Availableyes	We can handle any size party! party! Choose from our delicious
Banquet Capacity60	original or pan pizza. Discounts on group orders.
Seating Capacity230	Long Island Cafe - 886-8809
Meals Servedlunch/dinner	
LocationHistoric Market area	The Long Room - 722-6092
Authentic Irish pub featuring weekend Irish sing-a-longs and	Marianne Restaurant
great food every day.	235 Meeting Street, Charleston, 29401
Doe's Pita Plus - 577-3179	722-7196, FAX: 722-2096
	Private Banquet Rooms Availableyes
82 Queen	Reception Capacity32
82 Queen Street, Charleston, 29401	Meals Servedlunch/dinner
723.7591	Catering Services Availableno
Private banquet room for 30 people. Voted best restaurant by the	Group Rates Availableyes
people of Charleston, 82 Queen offers a variety of Lowcountry	LocationPeninsula City
delicacies in a unique 18th century setting.	French restaurant in renovated historic building. Local fresh
East Bay Trading Co 722-0722	fish, mussels, rack of lamb, and beef. Entertainment in lounge
Fast & French Inc., Gaulart & Malicet French Cafe	nightly. Private banquet room for up to 32 people.
98 Broad Street, Charleston, 29401	McDonald's Hamburgers - 723-2211
577-9797	_
Private Banquet Rooms Availableno	Mister Donut - 553-5333
Meals Servedbreakfast/lunch/dinner	Morrison's Cafeteria - 571-6700
Catering Services Availableyes	Noisy Oyster
Group Rates Availableyes	7571 Rivers Ave., N. Charleston
LocationPeninsula City	824-1000
A contemporary Paris cafe in an 1825 building. Quality food	The best fresh, local seafood in North Charleston. From oyster
served all day at very good prices.	puppies and alligator to deep fried lobster tails and daily spe-
	cials. A rustic, nautical setting with the charm of dockside dining.
French Quarter Restaurant	The Oriental Cuicine 747 0912
THE MOOT MOVERNOODED TO AND A HOW INDICE POPULATION AND A STREET	The finished function (A LIVI)

195 East Bay (located in Lodge Alley Inn), Charleston, 29401

722-1611, 1-800-845-1004, FAX: 722-1611, ext. 7777

The Oriental Cuisine - 747-9812

Private banquet room available for 60 people. Exquisitely prepared European and Lowcountry cuisine. Featuring a French Grand Rotisserie. Serving breakfast, lunch, and dinner daily.

Poogan's Porch Restaurant	S&S Cafeterias
72 Queen Street, Charleston, 29401	1104 Sam Rittenberg Boulevard, Charleston, 29407
577-2337, FAX: 722-1698	556-9420
Private Banquet Rooms Availableyes	Cafeteria dining with a choice of 18 salads and desserts, 22
Banquet Capacity50	vegetables, and 15 meat entrees to suit everyone's taste.
Reception Capacity100	Sadie's Cafeteria - 553-0250
Meals Servedlunch/dinner	
Catering Services Availableyes	Saracen Restaurant - 723-6242
Group Rates Availableyes	Shem Creek Bar & Grill - 884-8102
LocationPeninsula City	
Enjoy true Southern hospitality in an "Old Charleston" home.	Terrible Tom's
Dine indoors or outside on our porches and patio. Fresh seafood	188 Meeting Street, Old City Market, Charleston, 29401
and Lowcountry Southern cuisine.	722-6752
	Croissants, soup, sandwiches, lite lunches. World's finest puff
Primrose House Restaurant	pastry. We will open early to accommodate your group.
332 East Bay Street, Charleston, 29402	• • • • • • • • • • • • • • • • • • • •
723-2954	The Trawler Seafood Restaurant
Private Banquet Rooms Availableyes	Hwy. 17 N., Mt. Pleasant, 29464
Seating Capacity40	884-2560
Banquet Capacity40	Waterfront dining outside and inside, Sunset hour (happy hour),
Reception Capacity40	Raw-bar, Lounge-bar, Lunch-Dinner 7 days a week.
Meals Servedbreakfast/lunch/dinner	Wild Dunes Yacht Harbor/Tradewinds Restaurant
Catering Services Availableyes	41 st Ave., at Intracoastal Waterway, Isle of Palms, 29451
Group Rates Availableyes	886-5100, FAX: 886-5609
LocationPeninsula City	Private Banquet Rooms Availableyes
Small, intimate restaurant tucked into ground floor of an antebel-	Seating Capacity
lum mansion. This off-the-beaten-path secret has a devoted inter-	Banquet Capacity200
national and local following. Owner-chefs.	Reception Capacity400
· · · · · · · · · · · · · · · · · · ·	Meals Servedbreakfast/lunch/dinner
Privateer Restaurant	Catering Services Availableyes
1882 Andell Bluff Blvd., Johns Island, 29455	Group Rates Availableyes
768-1290, FAX: 768-9567	Location
R B's Rusty Pelican - 881-0466	
	Resort marina and restaurant. Inshore/offshore fishing and sail-
Reeves Bar-B-Que - 763-5798	boat charters, boat rentals and excursions. Dockside dining, pri-
Restaurant Million - 577-7472	vate dining room, and outdoor events.
	Wild Wing Cafe
Reuben's Downtown Delicatessen	36 N. Market St., Charleston, 29401
251 Meeting Street, Charleston, 29401	722-9464
722-6883	Private Banquet Rooms Availableyes
Private Banquet Rooms Availableno	Reception Capacity120
Meals Servedbreakfast/lunch/dinner	Meals Servedlunch/dinner
Catering Services Availableyes	Catering Services Availableyes
Group Rates Availableno	Location
LocationPeninsula City	Wide variety of "fun" foods. Nachos, quesadillas, homemade
"Eat where the locals eat" in the heart of downtown Charleston,	salsa and chips, PLUS 15 different flavors of "the Best Wings
2 blocks north of Market Street. Homemade soups/salads/sand-	South of Buffalo" and the original bucket o'beer.
wiches.	Bount of Buffato and the original bucker o been
Robert's of Charleston	Shopping:
112 N. Market St., Charleston 29401	anakking.
	Antiques
577-7565, 1-800-729-0094, FAX: 723-2206	Geo. C. Birlant & Co.
Private Banquet Rooms Available	
Seating Capacity	171 King Street, Charleston, 29401
Meals Served dinner	722-3842
Catering Services Availableno	Direct importers of Charleston's largest collection of fine quality
Location	personally selected 18th and 19th century English furniture, sil-
A unique musical dining experience since 1976. Enjoy an ele-	ver, china, crystal, and brass.
gant, prix-fixe six course dinner in Robert's intimate setting	Livingston & Sons Antiques, Inc 723-9697
while our vocalist performs Broadway show tunes for your plea-	NV

Art Galleries

sure.

Ronnie's Seafood Restaurant - 884-4074

The Audubon Shop & Gallery - 723-6171

Things to See and Do

Virginia Fouche Bolton Art Gallery

127 Meeting Street, Charleston, 29401 577-9351

Virginia paints with unparalleled expertise and sensitivity, capturing the charm and mystery of Charleston.

Jim Booth Art Gallery

1929 Maybank Hwy., Charleston, 29412

795-8244, FAX: 795-8464

On display are original paintings, collector prints, and posters by Charleston's own Jim Booth.

Carolina Prints & Frames - 723-2266

Courtyard Gallery - 723-9172

Gallery 12 - 723-0311

Lowcountry Artists, Ltd. - 577-9295

Anne Worsham Richardson Birds I View Gallery

119-A Church Street, Charleston, 29401

723-1276

Bird and wildlife prints and original paintings by South Carolina artist, naturalist Anne Worsham Richardson.

Department Stores

Belk - 571-5420

Condon's - 556-3555

J. C. Penny Co. - 554-0300

Sears, Roebuck & Co. - 797-2100

Shadid's Department Store - 577-2800

Specialty Shops

A Basket O'Carolina - 723-7777

Anne's Dress Shop - 577-3262

Ben Silver Corporation

149 King Street, Charleston, 29401

577-4556, 1-800-221-4671, FAX: 723-1543

World's largest selection of jewelry quality blazer buttons and authentic regimental pure English silk neckties.

Berlin's - 722-1665

Bird Sales, Inc. - 577-5440

Bits of Lace - 577-0999

Bluestein's Men's Wear - 722-1738

Carolina Gifts and Seashells

1405 Ben Sawyer Blvd., Mt. Pleasant 29464 884-0320

Shells from around the world, nautical gifts, Charleston prints and souvenirs, tee shirts, salt-water taffy. Family fun for everyone!

Chapter Two Bookstore

199 East Bay St., Charleston, 29401

722-4238

Charleston's most complete bookstore with a large collection of books on Charleston and the Lowcountry.

The Charleston Catalog Company

139 Market St., Charleston, 29401

577-7462, 1-800-533-6629, FAX: 853-8708

Southern gifts, arts and crafts, food & home accessories, with an emphasis on Made-in-Charleston products. Quantity discounts available to meeting planners and corporations.

Charleston Post Card Company - 762-0771

The Country Bumpkin - 884-8808

The Clothes Horse

289 King St., Charleston 29401 853-9636, FAX: 723-5017

Factory outlet store . . . large selection of sterling silver jewelry

Croghan's Jewel Box

308 King St., Charleston, 29401 723-3594

A. J. Davis & Co., Inc - 577-3088

M. Dumas & Sons, Inc. - 723-8603

The Thomas Elfe House - 722-2130

Bob Ellis Shoe Store - 722-2515

Elza's, Inc. - 722-3334

Fulford-Egan Coffees & Teas

231 Meeting St, Charleston, 29401

577-4553,1-800-736-4301

60s style coffeehouse where artists, students, professors, etc. congregate. Comfortable atmosphere, with great coffee, live music nightly. No cover. Over 150 bulk coffees available.

Geiss & Sons Jewelers - 577-4497

Gingiss Formal Wear - 553-8470

Good Scents, Inc. - 723-6933

Gucci - 722-3788

Haagen-Dazs Ice Cream Shoppe

43 S. Market St., Charleston 29401

723-9326

We feature the best ice cream and yogurt made . . . Haagen Dazs is world renowned!

Historic Charleston Reproductions - 723-8292

Horsefeathers - 723-7995

The John Huguley Co. - 740-1500

In Good Taste

1901 Ashley River Road, Charleston

763-5597

Gourmet foods, gift ideas, fine wines, great coffee, kitchen tools, seminars, low country foods.

Kiawah General Store - 768-9541

Jack Krawcheck - 722-1776

Kuppenheimer - 572-2292

Loco Record Shop - 744-0232

Lowell's Inc./dba Affordables - 571-0140

J.J.W. Luden and Co.

Concord and Charlotte Sts., Charleston, 29402 723-7829

Authorized Orvis dealer. Serving Charleston since 1867. Clothing, marine supplies, fly fishing supplies, guide services, fly fishing school.

Market Street Munchies - 722-0800

Market Street Sweets

100 North Market St., Charleston, 29401

722-1397, 1-800-364-2140

Handmade Southern pralines and other candies, discount incentives to conventions, free samples, gournet gift baskets.

Mitchell's Formal Wear - 572-5863

Mori Luggage & Gifts - 763-3644

Old Charleston Joggling Board Co. - 723-4331

Jack Patla Co. - 723-2314

Polo, Ralph Lauren - 722-6657

Prescription Center, Inc. - 723-5342

R & M Sporting Goods - 766-7102

R.S.V.P. - 577-9740

The Rainbow Market Shops

40 N. Market Street, Charleston, 29401

The Rainbow Market is two unique interconnected buildings, one-and-a-half centuries old, filled with distinctive shops.

Scents Unlimited

92 N. Market Street, Charleston, 29401

853-8837

The sensible place to shop for all of your fragrance needs without spending a fortune.

Sea Level, Inc. - 722-6487

Sheila's Shamrock - 577-0833

The Shops at Charleston Place

Located at the Omni Hotel

130 Market Street, Charleston 29401

722-4900

"The best shopping in the history of Charleston", including Polo Ralph Lauren, Gucci, Banana Republic, Talbots, Godiva, and 20 other fine shops.

The Stockpot, Inc. - 723-9063

T & T Sporting Goods - 747-5000

Symphony:

Charleston Symphony Orchestra

14 George Street, Charleston, 29401

723-9693, FAX: 722-3463

With internationally renowned guest artists and acclaimed music director David Stahl, the CSO performs a varied repertoire of masterworks, chamber and pops music September through May.

Theater:

Footlight Players, Inc.

20 Queen Street, Charleston, 29401

722-7521

Live performances Oct.-May presented in small theatre which

was a cotton warehouse. Charleston's resident community theatre. Oldest (60 yrs.) community theatre in SC.

Tours:

Carriage Tours

Carolina Carriage Company, Inc.

170 Church St., Charleston, 29401

723-8687, FAX: 727-2797

Group Rates Available - yes

Licensed guides conduct horse-drawn carriage tours of historic Charleston. Private and group tours available.

Charleston Carriage Company

96 N. Market Street, Charleston, 29401 577-0042

Old South Carriage Tours

14 Anson Street, Charleston, 29401

723-9712

Tour guides wearing the Confederate uniform. Surrey-style carriages with 16-passenger capacity. 20% discount for adult groups of 25 or more.

Olde Towne Carriage Company

20 Anson Street, Charleston, 29401

722-1315, FAX: 881-4078

Twenty-five custom carriages for larger groups, weddings and private tours.

Palmetto Carriage Works, Ltd.

40 N. Market Street, Charleston, 29401

723-8145

60-minute tours. Best tour guides in town. Can accommodate large groups. Private carriages available. Excellent spouse program options.

Private Guide Service:

Associated Guides of Historic Charleston

P.O. Box 545, Charleston, 29402

724-6419

Five lifetime Charleston residents available to show you their hometown. Convention planning, private walking tours, and stepon guide service for tour buses.

Charleston Guide Service

253 St. Margaret St., Charleston, 29401

723-9023

Guides professionally trained and versed in local lore presenting an unparalleled insight into Charleston's three centuries of history and beauty.

Charleston Strolls Guide Service

P.O. Box 1651, Charleston, 29402

766-2080

Tours designed especially for your groups by experienced guides. Step-on guides, walking tours, plantations, and gardens, Beaufort and Georgetown, SC.

Janice Kahn Tours

316 Confederate Circle, Charleston, 29407

556-0664

Group Rates Available - yes

Tours made to order for your interest, budget, and time. Tours conducted by Charlestonians with charm and wit who enjoy showing you our city.

Things to See and Do

Tours of Historic Charleston - 722-0026

Motorized Tours:

Adventure Sightseeing Inc.

1090 Ft. Sumter Drive, Charleston, 29412

762-0088, 1-800-722-5394

Group Rates Available - yes

The Best of Charleston. One and two-hour tours. A family owned business. See it all. Departs daily, 7 a.m.-10 p.m. Reservations accepted.

Charleston Historical Tours

P.O. Box 30201, Charleston, 29417

853-TOUR, 1-800-CHT-OUR1, FAX: 766-9067

Group Rates Available - yes

1 & 2-hour tours in the Old Town, leaving every 15 to 20 minutes. See plantations and gardens - you may get on and off our tour as many times as you like.

Colonial City & Plantation Tours

P.O. Box 20996, Charleston, 29413

871-2828, 1-800-844-8128, FAX: 871-2828

Group Rates Available - yes

The Platinum Tour of Charleston. One and two-hour tours available. Tours can include house museums to plantations. Call for details.

Colonial Coach & Trolley Co.

P.O. Box 12068, Charleston, 29412

795-3000

Group Rates Available - yes

Beautiful trolleys - Charleston's finest sightseeing and transportation vehicles.

"Doin' The Charleston" Tours, Inc.

P.O. Box 31338, 29417-1338

763-1233, 1-800-647-4487, FAX: 763-0028

Group Rates Available - yes

History with humor on an unique 90-minute tour of Charleston. Live narration vividly enhanced with music and slide show. 21 passenger mini-bus, air-conditioned comfort. Free downtown pickup.

Walking Tours:

Architectural Walking Tours of Charleston

Rt. 1, Box 1228, Round O. SC 29474

893-2327

An interpretation of the fascinating history of Charleston through its unique architectural heritage. Guided by an art historian and licensed city guide. Includes gardens, interiors.

Charleston Tea Party Walking Tours

57 1/2 Legare St.

577-5896

Group Rates Available - yes

Two-hour tour of Charleston architecture, gardens, churches, and preservation ending with a tea party in the private garden of the home of your guide.

Charleston Strolls

P.O. Box 1651, Charleston, 29402

884-9505 or 766-2080

Entertaining spousal programs personally designed for your group. Tour includes interiors. Introductions to Charleston at breakfast or lunch by our experienced guides.

Civil War Walking Tour - 722-7033

The Complete Walking Tour of Historic Charleston

c/o Charleston Publishing Co.

P.O. Box 16026, Charleston, 29412

795-7662

16-page guidebook of the Historic District. Charming illustrations. Leisurely, self-guided tour. Wonderful souvenir piece.

Elliott Walking Tours

94 Smith St., Charleston 29401

853-9608, 1-800-645-5503

EWT provides highly experienced and very knowledgeable guides, coupled with many other services to make your visit more enjoyable: private tours, local information, etc.

Historic Charleston Walking Tours - 722-6460

Al Miller Walking Tours - 723-1467

Water Tours:

"Charles Towne Princess" Gray Line Water Tours

17 Lockwood Dr., City Marina, P.O. Box 861, Charleston, 29402 722-1112, 1-800-344-4483, FAX: 577-3599

Group Rates Available - yes

Daily harbor tours with luncheon (spouse tours) sightseeing. Evening "Harborlites Dinner/Dance Cruise" or private charters available. Plan your theme!

Coastal Expeditions, Inc.

884-7684

Kayak tours and rentals. Enjoy the lowcountry from the water. Half-day Instructional Tours and full day Adventure Tours.

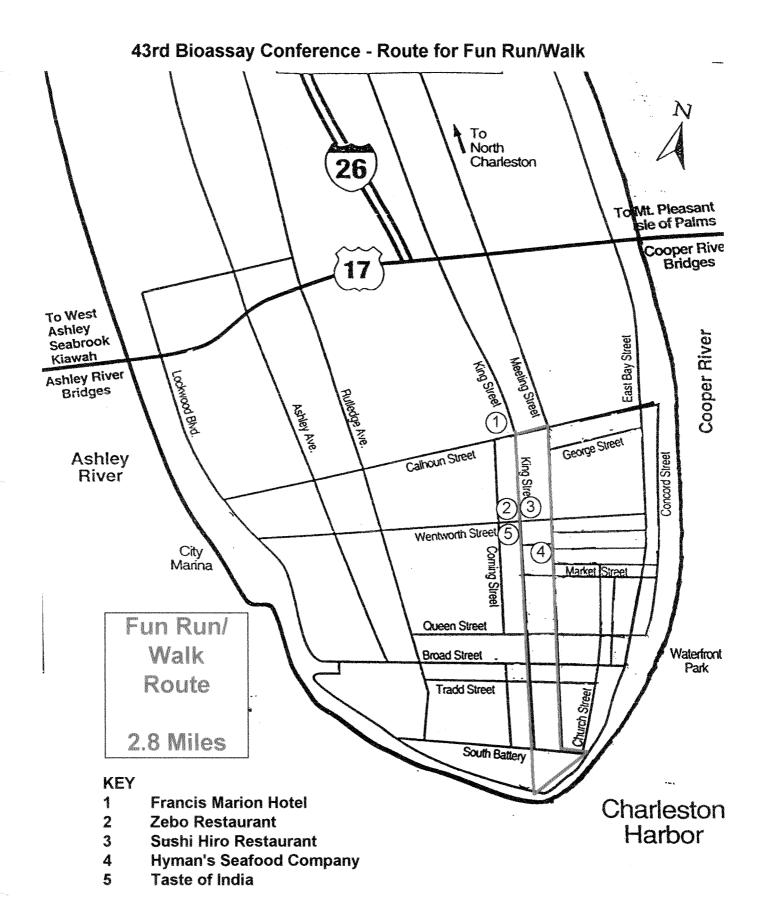
Fort Sumter Tours, Inc.

P.O. Box 59, Charleston, 29402

722-1691

Group Rates Available - yes

3 Tours: the only tour that stops at Fort Sumter; a tour of Charleston Harbor; an evening dinner & harbor cruise.



3M

3M Center, Bldg. 60-1S-16

St.Paul, MN 55144

Conact: Steve Alexander

tel: 612-733-2652 fax: 612-733-9520 toll free: 800-645-3550

3M manufactures and markets 3MTM EmporeTM Rad Disks for the selective adsorption of radium, strontium or technetium. The disks are time membranes loaded with element-selective particles embedded in a stable inert matrix of PTFE fibrils. Empore Rad Disks dramatically cut sample preparation time in comparison to conventional preparation methods.

Analytics, Inc.

1380 Seaboard Industrial Blvd.

Atlanta, GA 30318

Contact: Daniel M. Montgomery

tel: 404-352-8677 fax: 404-352-2837

web:www.analyticsinc.com email:analytics@mindspring.com

Analytics is a leader in the production of custom NIST-traceable radioactivity sources for calibration of alpha, beta, and gamma-ray detectors. Analytics also provides performance evaluation programs for effluent and environmental monitoring programs. Performance evaluations samples provide for assessment of the accuracy and precision of the entire analytical process.

Aptec Nuclear, Inc.

908 Niagara Falls Blvd., Ste. 524 N. Tonawanda, NY 14120-2060 Contact: Phil Stark, V.P. of Sales

tel: 716-754-7401 fax: 716-754-2389

web: http://www.aptec-inc.com email: aptec@aptec-inc.com

Aptec has been a world leader in analytical and health physics instrumentation for over 25 years. We provide analytical instrumentation such as NaI(Tl) and HPGe detectors, low background shields, NIM or stand-alone spectroscopy units, PC-based MCA cards and systems, DC/Battery powered portable MCAs and quantitative detectors, hand & foot monitors, floor/parking lot monitors, tool monitors, and whole body surface contamination monitors for alpha/beta/gamma detection.

Barringer Laboratories, Inc.

1500 West 6th Ave. Golden, CO 80401

tel: 303-277-1687 fax: 303-277-1689 tol free: 800-654-0506

email: mrocha@barringer-labs.com

Established in 1961, Barringer Laboratories, Inc. Provides analytical services (inorganic, organic, and radiochemistry). Current projects include: LANL - waste management; McGuire BOMARC missile range; and the US Radium site.

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4590 MacArthur Blvd. Washington, DC 20007

tel: 202-338-0974 fax: 202-333-8514 toll free: 800-255-7226 web: www.bioscan.com email: sales@bioscan.com

Bioscan is a developer of affordable instrumentation for radioisotope counting, luminometry, and chromatography. Major product lines include benchtop LSC counters and luminometers, TLC and gel scanners, and radio-HPLC detectors. Our recently introduced Lumi-Scint provides a battery operated field instrument for LSC measurements

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CEM Corporation will exhibit microwave-based instrumentation for sample preparation prior to subsequent radio-chemical analysis The STARTM Open Vessel System digest large sample sizes (up to 10g) to achieve lower detection limits The new MARS 5 Closed Vessel Digestion System provides high temperature and pressure reactions allowing complete destruction of organics.

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CHEMCHEK INSTRUMENTS, INC.™ is a small manufacturer of a quality analyzer for Trace metals Uranium and Lanthanides. The rugged Kinetic Phosphorescence Analyzer is fast, reliable, easy, sensitive, selective, economical. Achieve highly specific, precise, 10ppt detection limits using time resolved phosphorescence/fluorescence spectroscopy. ASTM & EPA approved methods.

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toll-free: (800) 422-6693 UK numbers: web: www.eichrom.com tel. (01337) 827 715 e-mail: info@eichrom.com fax. (01337) 827 716

Eichrom Industries manufactures and markets specialty chromatographic resins for selective radionuclide separations, analytical grade ion exchange resins and proprietary solvent extractants. With offices in the United States and France, Eichrom provides applications support directly to our customers in North America and Europe and, via a network of distributors, to scientists around the world.

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490 Wando Park Blvd. Mt. Pleasant, SC 29464

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Environmental Express is a specialty laboratory supplier providing value added supplies and apparatus to environmental, industrial, and governmental laboratories. Products being displayed at the 43rd Bioassay Conference will be our Hot BlockTM for glassware free metals digestions, the StepSaverTM for solid extraction, and disposable columns and accessories for actinide separations.

Environmental Physics, Inc.

2040 Savage Road Charleston, SC 29407

Contact: David McNair, Vice President of Business Development

tel: 803-556-8171 Fax: 803-766-1178 web: www.gel.net email: dhm@gel.com

Environmental Physics, Inc. (EPI), an affiliate of General Engineering Laboratories, Inc., provides radiochemistry analyses on environmental and bioassay samples to both government and industry. EPI is production oriented and has one of the highest throughput capacities of any private radiochemistry laboratory in the country. Together with General Engineering Laboratories, EPI provides full service mixed waste analysis and currently holds major contracts with the Department of Energy at thirteen of their weapons sites.

Gamma Products, Inc

7730 W. 114th Place Palos Hills, IL 60465

Contact: Walter Meier, President

tel: 708-974-4100 fax: 708-974-0071

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Gamma Products, Inc. offers a choice of low background manual and automatic G5000 series A/B counting systems in single or multiple detector configurations. The G-3000 automatic marinelli changer is also available and can be adapted to a variety of samples. Gamma Products also offers low background standard and customized shielding.

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tel: 818-843-7000 fax: 818-843-6168

web: www.isotopeproducts.com e-mail: sales@isotopeproducts.com

Isotope Products Laboratories is a NIST traceable laboratory supplying radioactive standards, sources and nuclides for counting room use, instrument calibration and environmental monitoring, specializing in custom requirements. A full line of nuclear medicine products is also available. Isotope Products Laboratories celebrates its 30th anniversary this year.

Nevada Technical Associates, Inc.

PO Box 90748

Henderson, Nevada 89009 Contact: Robert Holloway

tel: 702-564-2798 fax: 702-558-7672

web: http://www.ntanet.net/email: nta@ntanet.net

Nevada Technical Associates, Inc., offers technical training and consulting in radiation safety, radiochemistry, quality assurance and related topics. Most of our courses are held in Las Vegas, Nevada. We also offer on-site courses that can be customized to the needs of the client. In 1998, we are offering 13 distinct courses.

Nuclear Technology Services, Inc.

635 Hembree Parkway Roswell, GA 30076 Contacts: Dr Hermon Rao

> Dr. Evgeny Taskaev David Johnson

tel: 770-663-0711 fax: 770-663-0547

email: HermonRao2@AOL.COM

Radiological Services: NTS offers analytical services for a broad range of radiological samples. Our radiochemical laboratory is staffed with experienced professionals who analyze environmental, bioassay, effluent and waste samples for a full range of radionuclides. A broad spectrum of samples, including liquid, soil, vegetation, and bioassay can be handled in our laboratory. Irradiation and Calibration Services: Our Irradiation and Calibration Facility meet or exceed the industry requirements for the 1990's. Our facility is staffed with highly qualified personnel with extensive experience in the dosimetry and radiation detection instrument fields.

ORDELA, Inc.

1009 Alvin Weinberg Drive Oak Ridge, TN 37830

Contact: Wayne P. Graves, Product Manager

Daniel M. Kopp, Technical Director

tel: 423-483-8675 fax: 423-483-8404 email: info@ordela.com

ORDELA, Inc. is a privately owned corporation formed in 1984 to provide specialized products, services, and systems for the scientific and industrial research community. ORDELA, Inc. produces a line of alpha spectrometry instrumentation, including the PERALS® Spectrometer and large-area ionization chambers. ORDELA, Inc. also specializes in position-sensitive detection systems for x-rays and neutrons.

OUTREACH LABORATORY

311 North Aspen Ave Broken Arrow, OK 74012

Contact: Ron Eidson, Laboratory Director

TEL: 918-251-2515 FAX: 918-251-0008

OUTREACH LABORATORY is a full service lab specializing in radiological analyses and the leading expert in lung solubility classification. OUTREACH offers high quality bioassay analyses with a rapid turnaround and low cost mobile lab services, consultation and radiochemistry training programs are also available. At OUTREACH, Customer Satisfaction is always Guaranteed!

OXFORD INSTRUMENTS, INC

Nuclear Measurements Group 601 Oak Ridge Turnpike Oak Ridge, TN 37830

Contact: John Sonewald ext: 204

Lester Sideropoulos ext: 218

tel: 423-483-8405 fax: 423-483-5891 toll free: 800-769-3673

email: nmg@oxfordnm.usa.com

Oxford Instruments, Inc., Nuclear Measurements Group is a manufacturer of nuclear counting systems. Product lines include gamma and alpha spectroscopy systems, low level alpha and beta counting systems, NIM, and educational counters.

Packard Instrument Company

800 Research Parkway Meriden, CT 06450

tel: 203-238-2351 fax: 203-639-2172

web: http://www.packardinst.com email: webmaster@packardinst.com

Packard Instrument Company, manufactures Tri-Carb® liquid scintillation counters; Cobra® gamma counters; Radiomatic® flow scintillation analyzers; TopCount® NXT microplate scintillation and luminescence counters; InstantImager® electronic autoradiography systems; Cyclone™ storage phosphor systems; MultiPROBE® robotic liquid handling systems; Discovery® homogeneous time-resolved fluorescence (HTRF®) microplate systems; FluoroCount™, LumiCount™ and SpectraCount™ - non-isotopic microplate counters; samples oxidizers; gas generators; biological reagents; and chemical and supplies.

Protean Instrument Corporation

PO Box 1008

Lenoir City, TN 3771 Contact: Phillip Cole

tel: 423-988-6911 fax: 423-988-6905 email: picsales@aol.com

Protean Instrument specializes in a complete line of alpha/beta counting instruments featuring thin window and windowless gas-flow proportional detectors. Products include low background models with automatic planchet sample changers, manual single-drawer/single-detector models, and multiple-drawer/multiple-detector models.

PULCIR, Incorporated

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Oak Ridge, TN 37830-3500

Contact: Joe Eddlenmon, Ray McPhillips, or Robert Poling

tel: 800-862-1390 fax: 423-927-6866 web: www.pulcir.com e-mail: joe@pulcir.com ray@pulcir.com

robert@pulcir.com

Pulcir, Incorporated is celebrating 30 years as Manufacturers Representatives. We represent the finest product lines in the Radiation Detection business. Our Line includes: Ludlum Measurements (portable and fixed monitoring & survey instruments), American Nuclear Systems (computer based MCA systems), Bubble Technology (field portable gamma spec instruments). Plus much more.

Quanterra Richland Laboratory

2800 George Washington Way

Richland, WA 99352 Contact: Matt Lardy

tel: 509-375-3131 fax: 509-375-5590

email: lardym@quanterra.com

Cathy Knudsen

719 Pinellas Bayway #103 Tierra Verde, FL 33715

tel: 813-864-3118 fax: 813-864-3068

email: knudsenc@quanterra.com

Quanterra-Richland has over 32 years experience in bioassay analyses for numerous commercial and government clients. On October 7, 1997, Quanterra-Richland became the first laboratory to successfully complete the DOELAP Radiobioassy Accreditation Process which applies to the required technical (including documentation) and administrative aspects of bioassay monitoring programs at DOE/DOD contractor facilities

OST Environmental Laboratories

PO Box 1703

Gainesville, FL 32602-1703

Contact: Paul C Geiszler, Associate Vice President, Manager Business Devlopment/ Customer Services

tel: 352-332-3318 fax: 352-332-6622

email: pcgeiszler@qstmail.com info@qstmail.com

Located in Gainesville, Florida, QST Environmental (formerly ESE) laboratories offer more than 30 years of experience and extensive full service analytical capabilities. QST is exceptionally qualified in the analysis of radiochemical, organics, inorganics, air toxics, high explosive/munitions in a variety of matrices including biota.

Thermo NUtech

5635 Jefferson Street NE Albuquerque, New Mexico 87109

tel: 505-345-9931 fax: 505-761-5410

Once known as Eberline Instrument corporation, **Thermo NUtech** is a subsidiary of Thermo Remediation in the Thermo Electron family of companies. Thermo NUtech is a radiological services company that provides bioassay, radiochemical waste characterization, radiochemical analyses, health physics support services, dosimetry and innovative technologies to remediate radiologically contaminated sites.

Tennessee Valley Authority

WAR 1A PO Box 1010

Muscle Shoals, AL 35662-1010 Contact: William L Raines, Ph.D.

tel: 205-386-2536 fax: 205-386-2782 email: wlraines@tva.gov

TVA Nuclear Radiological Services provides repair and calibration of radiation survey instrumentation, external dosimetry processing and radioanalytical analyses including environmental, effluent and waste characterization. The combination of staff, facilities, and years of experience supporting the TVA nuclear program make TVA Nuclear Radiological Services an excellent partner for radiological support services.

43rd Annual Conference on Bioassay, Analytical and Environmental Radiochemistry November 9-13, 1997

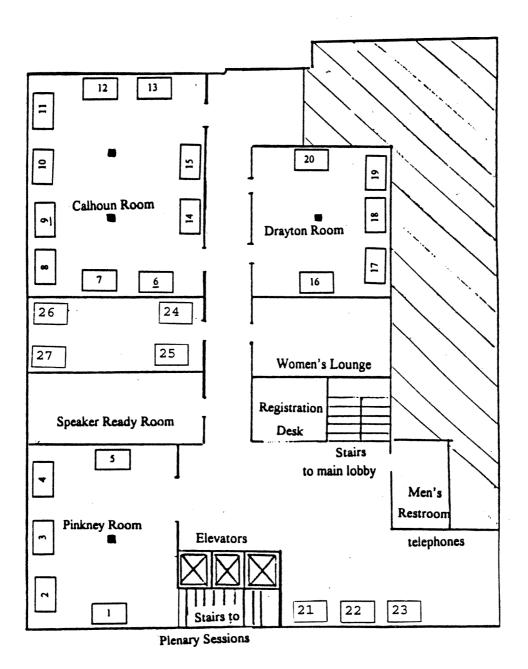
<u>VENDOR</u>	BOOTH
Analytics, Inc.	1
Environmental Physics, Inc.	2
Eichrom Industries	3
Thermo NUtech	4
EG&G ORTEC	5
Packard Instrument Company	6
Canberra Industries	7
Protean Instrument Corporation	8
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43rd Annual Conference on Bioassay, Analytical and Environmental Radiochemistry November 9-13, 1997

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43rd Annual Conference on Bioassay, Analytical, and Environmental Radiochemistry November 9-13, 1997

Vendor Exhibit Floor Plan



The stairway in the Pinkney Room leads to the Colonial Room in which the plenary sessions will be held. The Colonial Room is also accessible from the main lobby.

Booths 14 and 15 have no access to electrical outlets. All other booths do.

Sunday, November 9 Workshop Session 1 Colonial Room

Day/Time	Workshop Title/Presenter
Sunday	
8:00-5:00	Conference Registration
8:00-9:00	Continental Breakfast served on the
	Mezzanine Level
9:00-12:00	Ordela PERALS Workshop VII
	Wayne Graves
12:00-1:30	Lunch On Your Own
1:30-3:30	"State-of-the-art in Bioassay Measurements"
	Myint Thein
3:30-3:45	Coffee Break
	Mezzanine Level
3:45-5:30	"Linear Statistical Modeling"
	Ken Scrabel
6:00-9:30	Reception at Environmental Physics, Inc.
	(Buses depart beginning at 5:30 from the Francis Marion)

Workshop Session 2 Calhoun Room

Day/Time	Workshop Title/Presenter
Sunday	
1:30-3:30	Packard
	"New Applications for Environmental LSC"
3:30-3:45	Coffee Break
	Mezzanine Level
3:45-5:30	EG&E ORTEC
	"Laboratory Networks – Is Now the Time?"
6:00-9:30	Reception at Environmental Physics, Inc.
	(Buses depart beginning at 5:30 from the Francis Marion)

Monday, November 10 Workshop Session 3 Colonial Room

Day/Time	Workshop Title/Presenter	
Monday	•	
7:30-5:00	Conference Registration	
7:00-8:00	Continental Breakfast served on the	
	Mezzanine Level	
8:00-10:00	"DOE QA Program"	
	Pam Greenlaw	
10:00-10:15	Coffee Break	
	Mezzanine Level	
10:15-12:00	Eichrom Workshop "Radiochemical Separations	
	using Extraction Chromotography"	
12:00-1:15	Lunch On Your Own	
1:15-3:00	Canberra Industries	
	"Alpha Spectrometry"	
3:00-3:15	Coffee Break	
	Mezzanine Level	
3:15-5:00	"NIST Rad Intercomparison Program"	
	Chaun F. Wu	
5:30-7:30	Vendor Reception sponsored by Eichrom Industries	
	Vendor Display Area	

Workshop Session 4 Calhoun Room (Morning) Gold Room (Afternoon)

Day/Time	Workshop Title/Presenter	
Monday		
7:30-5:00	Conference Registration	
7:00-8:00	Continental Breakfast served on the	
	Mezzanine Level	
8:00-10:00	Oxford	
	"New Technology in LL α/β Counting"	
10:00-10:15	Coffee Break	
	Mezzanine Level	
10:15-12:00	"MDA and Detection Limits"	
	M. Hotchandani/Rao	
12:00-1:15	- Lunch On Your Own	
1:15-3:00	"DOE Mixed Waste Performance Evaluation Program (MAPEP)"	
	Stan Morton	
3:00-3:15	Coffee Break	
	Mezzanine Level	
3:15-5:00	3M Empore™ Rad Disks	
5:30-7:30	Vendor Reception sponsored by Eichrom Industries	
	Vendor Display Area	

Keynote Address/Internal Dosimetry Chair: W. Burnett, Florida State University

Colonial Room

Tuesday 7:00-8:00 Continental Breakfast Colonial Room 7:30-5:00 Registration Mezzanine Level 8:00-8:10 Heyward H. Coleman Environmental Physics, Inc. 8:10-8:20 Joseph P. Riley Mayor of Charleston 8:20-9:00 Keynote Address: Prof. Ron Kathren Washington State University 9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Coffee Break Vendor Display Area	Day/Time	Author/Co-Authors Affiliation	Title
7:00-8:00 Continental Breakfast Colonial Room 7:30-5:00 Conference Registration Mezzanine Level 8:00-8:10 Heyward H. Coleman Environmental Physics, Inc. S:10-8:20 Joseph P. Riley Mayor of Charleston 8:20-9:00 Keynote Address: Prof. Ron Kathren Washington State University 9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Coffee Break Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to Charleston D Eon Bioassay, Analytical, and Environmental Provisons Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Provisons Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Provisons Environmental Provisons Environmental Radiochemistry Welcome to Charleston Full Mezore on Bioassay, Analytical, and Environmental Provisons Environmental Radiochemistry DoE's Proposed Standard for Internal Dosimetry The T.R.I.P. (Thyroid Radioiodine Intercomparison Program) Odyssey Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)	T	Aimauon	
7:30-5:00 Conference Registration Mezzanine Level 8:00-8:10 Heyward H. Coleman Environmental Physics, Inc. S:10-8:20 Joseph P. Riley Mayor of Charleston Registry 9:00-9:20 Meynote Address: Prof. Ron Kathren Washington State University 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Coffee Break Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to Charleston on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Pardic on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference on Bioassay. Fundancial Radiochemistry Welcome to the 43rd Conference on Bioassay. Fundancial Radiochemistry Welcome to Charleston Fundancial Radiochemistry Fundancial Radiochemistry Fundancial Radiochemistry Welcome to Charleston Fundancial Radiochemistry Fundancial Radiochemistry Fundancial Radiochemistry Fundancial Rad			
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8:10-8:20 Joseph P. Riley Mayor of Charleston		Environmental Physics, Inc.	on Bioassay, Analytical, and
8:20-9:00 8:20-9:00 Keynote Address: Prof. Ron Kathren Washington State University 9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Coffee Break Human Tissue Studies: The Ultimate Bioassay? DOE's Proposed Standard for Internal Dosimetry The T.R.I.P. (Thyroid Radioiodine Intercomparison Program) Odyssey Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)			Environmental Radiochemistry
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Prof. Ron Kathren Washington State University 9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association Ultimate Bioassay? DOE's Proposed Standard for Internal Dosimetry Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR) 10:00-10:20 Coffee Break		Mayor of Charleston	
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9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Coffee Break DOE's Proposed Standard for Internal Dosimetry Region Internal Dosimetry Internal Dosimet		Prof. Ron Kathren	Ultimate Bioassay?
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9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)		DOE and Pacific Northwest	-
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P:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Intercomparison Program) Odyssey Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)	9:20-9:40	Son N. Nguyen	The T.R.I.P. (Thyroid Radioiodine
9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association 10:00-10:20 Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)		,	
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S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association S.P. Grytdal, R.H. Filby, R.L. between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR) 10:00-10:20 Coffee Break	9:40-10:00	R.E. Filipy, D.B. Stuit, S.E. Glover,	Radiochemical Comparison
Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association Coffee Break the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR)			·
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and V.I. Chernikov U.S. Transuranium and Uranium Registry Dosimetry Registry of the Mayak Industrial Association Transuranium and Uranium Registries (USTUR) Registries (USTUR)		,	
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Dosimetry Registry of the Mayak Industrial Association Coffee Break		Registry	(5.5.5.7)
Industrial Association 10:00-10:20			
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Final Program: Session 2 Environmental Assessment

Chair: Larry Robinson, Florida A&M University Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title
Tuesday		
10:20-10:40	Evgeny Kontar and Bill Burnett P.P. Shirshov Institute of Oceanology (Moscow) and Florida	Fate of Chernobyl Radionuclides in Black Sea Sediments
	State University	
10:40-11:00	Carl T. Bishop, J.R. Wise, J.M. Byrne, and P.A. Tetsuwari Fluor Daniel Fernald	Uranium in Airborne Particulates at Fernald Using "Dynaweb" Filters
11:00-11:20	Greg Smith, Mike Schultz, Bill Burnett, and Ken.G.W. Inn Florida State University and NIST	Optimization of a Sequential Extraction Method for Soils and Sediments: Development of the NIST Standard Sequential Extraction Protocol
11:20-11:40	G. Timothy Jannik Westinghouse Savannah River Company	Critical Radionuclide/Critical Pathway Analysis for the Savannah River Site
11:40-12:00	Jon P. Martin, K.J. Odell Magnox Electric Plc (UK)	Emergency Radiochemical Analysis Methodology and Performance
12:00-1:30	Conference Luncheon Gold Room Invited Speaker: William Reinig	History of the Savannah River Site

Final Program: Session 3 Naturally-Occurring Radionuclides

Chair: Frank Kinard, College of Charleston Colonial Room

Day/Time	Author/Co-Authors	Title
	Affiliation	
Tuesday		
1:30-1:50	J. Oliveira, Barbara Mazzilli,	Determination of Natural
	M.H.O. Sampa, and E. Bambalas	Radioactivity in Public Water
	Instituto de Pesquisas Energeticas e	Supplies of the State of Sao Paulo
	Nucleares (Brazil)	
1:50-2:10	Donna M. Beals, Bill Winn, and	Analysis of the Ra-226/228 Isotope
	Miles Denham	Ratio to Determine the Source of
	Savannah River Technology Center	Elevated Radium in the
		Groundwaters Below an Old Coal
		Pile
2:10-2:30	Michael G. Cantaloub, J.F.	The Determination of Rn Partition
	Higginbotham, and L. Semprini	Coefficients for Several Liquid
	Oregon State University	Scintillation Cocktails
2:30-2:50	Katherine M. Ellis, Richard P.W.	Evaluation of the "Challenger"
	Nelson, John N. Smith, and Brad	Pump for Radionuclide
	Moran	Oceanographic Sample Collection
	Bedford Institute of Oceanography	
	and University of Rhode Island	
2:50-3:10	T.L. Rucker and C.M. Johnson	Calculation of Uranium Isotopic
	Science Applications International	Activity Composition Based on
	Corporation	Data from Various Assay Methods
3:10-3:30	Coffee Break	Coffee Break Sponsored by
	Vendor Display Area	Analytics

In-Vivo Analyses/Radiation Protection Chair: Myint Thein, Oak Ridge National Laboratory

Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title
Tuesday		
3:30-3:50	Gary H. Kramer	Considerations in Assigning Dose
	Canada Radiation Protection	Based on Uncertainties from In
	Bureau	Vivo Counting
3:50-4:10	Gary H. Kramer, Barry Hauck, and	Comparison of the LLNL and
	Steve Allen	JAERI Torso Phantoms Using Four
	Canada Radiation Protection	70 mm Ge Detectors and Four
	Bureau and Cameco Corp.	Phoswich Detectors
4:10-4:30	Gary H. Kramer, Linda Burns, and	Lung Counting: Evaluation of
	Suzanne Yiu	Uncertainties in Lung Burden
	Canada Radiation Protection	Estimation Arising from a
	Bureau	Heterogeneous Lung Deposition
		Using Monte Carlo Code
		Simulations
4:30-4:50	N. A. Teasley and L.D. Bible	Twelve Years of Radiation
	Oak Ridge National Laboratory	Monitoring of Deer on the Oak
		Ridge Reservation (1985-Present)
4:50-5:10	P. A. Scofield and F.R. O'Donnell	Individual and Collective Effective
	Oak Ridge National Laboratory	Dose Equivalents Associated with
		Consumption of Venison Obtained
		from Deer Hunts on the Oak Ridge
		Reservation
5:30-7:30	Complimentary Entertainment Suite	Please stop by the Nuclear
	hosted by Nuclear Technology	Technology Services, Inc./Nevada
	Services, Inc./Nevada Technical	Technical Association, Inc. booth
	Association, Inc.	for the Suite number

Radioanalytical Method Development

Chair: Brian Crandall, Westinghouse Savannah River Co. Colonial Room

Day/Time	Author/Co-Authors	Title
	Affiliation	
Wednesday		
7:00-8:00	Continental Breakfast	
	Colonial Room	
7:30-3:30	Conference Registration	
	Mezzanine Level	
8:00-8:20	D. R. Corbett, Bill Burnett, and	Simple Technique for the
	W.J. McCabe	Measurement of I-131 in Water
	Florida State University and	Samples via NaI Detector
	Geological and Nuclear Sciences,	
	Ltd. (New Zealand)	
8:20-8:40	Donna M. Beals, Brian S. Crandall,	Surface and Groundwater Analyses
	Wanda G. Britt, Peter D.	Using Solid Phase Extraction Disks
	Fledderman, Joseph P. Dugan, and	
	Brad K. Davis	
	Westinghouse Savannah River Co.	
	and Bechtel Savannah River Co.	
8:40-9:00	Roger Wong, Bill Burnett, Brian	Development of an Improved Assay
	Crandall, and Sue B. Clark	for the Determination of Gross
	Florida State University, WSRC,	Alpha and Beta Concentrations in
	and Washington State University	Soil by Liquid Scintillation
		Counting
9:00-9:20	S. Scarpitta, J. Odin-McCabe, R.	Comparative Results of Four Sr-90
	Gaschott, and A. Meir	Groundwater Analytical Methods
	Brookhaven National Laboratory	
9:20-9:40	Hewitt W. Jeter	Gross Alpha/Beta Proportional
	Teledyne Environmental Services	Counting for Samples Having High
		Residue Mass
9:40-10:00	Coffee Break	
	Vendor Display Area	

Extraction Chromatography/Separation Methods Chair: Michael Schultz, NIST and Florida State University Colonial Room

Day/Time	Author/Co-Authors	Title
	Affiliation	
Wednesday		
10:00-10:20	M. Rodriguez, J.L. Gascon, and	Study of the Interferences in the
	J.A. Suarez	Determination of Pu, Am, and Cm
	CIEMAT (Spain)	in Radioactive Waste by Extraction
	_	Chromatography
10:20-10:40	Peter H. Cable and Bill Burnett	Analysis of Promethium-147 In
	QST Environmental Inc. and	Aqueous Samples
	Florida State University	
10:40-11:00	Ray A. Sigg, S.F. Peterson, and	Promethium Separations using
	D.P. DiPrete	Eichrom Ln Resin
	Westinghouse Savannah River	
	Company	
11:00-11:20	R.A. Dewberry	Measurement of Ni-63 Content in
	Savannah River Technology	Savannah River Site DWPF Glass
	Company	Product by Ni-Selective Ion
		Exchange Purification and β-
		Counting
11:20-11:40	Robert Langston, Debra Madden,	The Determination of Curium in
	and Tracey Simpson	Fecal and Chelated Urine Samples
	Lawrence Livermore National	
	Laboratory	
11:40-1:30	Lunch	
	On Your Own	

Quality Assurance/Data Management/Statistics-1 Chair: Mo Khalil, Westinghouse Savannah River Co. Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title
Wednesday	Aimauon	
1:30-1:50	Conference Business Meeting Founder's Award Presentation	
1:50-2:10	W.E. Streets, <u>P.C. Lindahl</u> , J.J. Marr, K.J. Parish, A.E. Scandora, J.M. Copple, G.A. Anast, and J.R. Dahlgran ANL and RESL	Status of Implementation of DOE's Integrated Performance Evaluation Program (IPEP)
2:10-2:30	James R. Dahlgran, P.C. Lindahl, W.E. Streets, and W.R. Newberry RESL, ANL, and DOE	IPEP: The U.S. Department of Energy's Integrated Performance Evaluation Program; A Tool in a Total Quality System
2:30-2:50	Michael K. Schultz, Kenneth G.W. Inn, and J.M.R. Hutchinson National Institute of Standards and Technology	The NIST Radiochemistry Intercomparison Program NRIP: Traceability for Low-Level Radioanalytical Laboratories- Results of Year 1
2:50-3:10	Mansour Akbarzadeh, Chuan-Fu Wu, Steven Bakhtiar WIPP Laboratory	Radiochemical Methods and Intercomparison Programs Participation by WIPP Laboratories
3:10-3:30	Coffee Break Vendor Display Area	

Quality Assurance/Data Management/Statistics-2

Chair: Donivan Porterfield, Los Alamos National Laboratory Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title
Wednesday		
3:30-3:50	Howard L. Hall and Christine	WWW-Based Information
	Choate	Distribution in the Analytical
	Lawrence Livermore National	Laboratory
	Laboratory	
3:50-4:10	P.Berard, F. Briot, D. Cavadore, L.	International Quality Controls in
	Exmelin, R. Fottorino, F. Nguyen	the Field of Radiotoxicological
	PROCORAD (France)	Bioassy
4:10-4:30	Jon A. Broadway, Donald A.	Assessment of Performance Testing
	Chambless, and Richard E.	Results in 1997 and Response to
	Malenfant	Laboratory Questionnaire
	International Corps on the	
	Environment (ICE)	
4:30-4:50	Thomas M. Semkow	Is the Average of Detected Counts a
	New York State Dept. Health	Good Measure of the Dispersion of
		Radioactivity Measurements?
6:00-11:00	Beach Party	
	Citadel Beach House	
	Sullivan's Island	
	Buses Depart Beginning at 5:30pm	

Final Program: Session 9 (Concurrent with Session 10) Bioassay/Environmental Analytical Techniques

Chair: Robin Young, Westinghouse Savannah River Co. Calhoun Room

Day/Time	Author/Co-Authors Affiliation	Title
Thursday	Aimauon	
7:00-8:00	Continental Breakfast	
	Mezzanine Level	
8:00-8:20	J.G. Griggs and MARLAP	Multiagency Radiation Laboratory
	Workgroup Members	Protocols (MARLAP) Manual
	EPA, DOE, NRC, DOD, NIST,	
	others	
8:20-8:40	Tansy L. Taylor, Gary E. Grothaus,	The Department of Energy
	Rick Cummings	Laboratory Accreditation Program
	U.S. DOE/ID	for Radiobioassay
8:40-9:00	Donivan R. Porterfield	Assessment of Low-Level
	Los Alamos National Laboratory	Plutonium in Urine QC Sample
		Results by Thermal Ionization
		Mass Spectrometry (TIMS)
9:00-9:20	Seth D. Shulman	A Compact Liquid Scintillation
	Bioscan, Inc.	Counter for Benchtop and Field
	·	Use
9:20-9:40	J. W. Collins, S. Dunston, Angel D.	The U.S. Army Bioassay Program
	Christman, MAJ Maguire, MD,	for Internally Deposited
	and 1LT K. Guiberson	Radionuclides
	USACHPPM, MHPP, OEMP,	
	RCCCD	
9:40-10:00	Coffee Break	
	Mezzanine Level	

Final Program: Session 10 (Concurrent with Session 9)

Environmental Studies-1

Chair: Barry Stewart, Environmental Physics, Inc.

Pinkney Room

Day/Time	Author/Co-Authors	Title
	Affiliation	
Thursday		
7:00-8:00	Continental Breakfast	
	Mezzanine Level	
8:00-8:20	Barbara M. Gillespie, Gregory W.	Iodine-129 in Onsite and Offsite
	Patton, and Robert A. Kiddy	Samples at Hanford
	Pacific Northwest National	-
	Laboratory	
8:20-8:40	John R. Meriwether, Carey	The Effect of Diagenetic Processes
	Hardaway, Wei-jenq Sheu, Joseph	on the Radiochronology of Soft
	Sneddon, and James N. Beck	Sediments Using ²¹⁰ Pb and ¹³⁷ Cs
	University of Southwestern	
	Louisiana, McNeese State	
	University, and Nicholls State	
	University	
8:40-9:00	W.H. Carlton, G.T. Jannik, and	Radiological Impact of 1996
	A.A. Simpkins	Operations at the Savannah River
	Westinghouse Savannah River	Site
	Company	
9:00-9:20	I.L. Larsen, <u>F. Essien</u> , L.Robinson,	Radionuclide Distribution in Soils
	and J. Weaver	Periodically Treated with
	ORNL and Florida A&M Univ.	Municipal Sewage Sludge
9:20-9:40	Tim A. DeVol, J.E. Roane, and	Measurement of Radionuclides in
	R.A. Fjeld	Reactor Coolant Water by Ion
	Clemson University	Chromatography and On-Line/Off-
	-	Line Scintillation Counting
9:40-10:00	Coffee Break	
	Mezzanine Level	

Final Program: Session 11 (Concurrent with Session 12) New/Improved Radioanalytical Techniques Chair: Donna Beals, Westinghouse Savannah River Co. Calhoun Room

Day/Time	Author/Co-Authors Affiliation	Title
Thursday		
10:00-10:20	Donivan R. Porterfield, George H.	A New Tool in the Evaluation of
	Brooks, Sammy R. Garcia, Yolanda	Gamma-Ray Spectral Analysis
	I. Giles, Nancy L. Koski, and Bret	Software
	L. Lockhart	
	Los Alamos National Laboratory	
10:20-10:40	P.N. Koch, L. W. Hatcher, and J.D.	Active Shielding Techniques
	Batchelor	Applied to Gamma Spectroscopy
	Bechtel Nevada	and Their Costs vs. Benefits
10:40-11:00	Steven A. Kreek, D. Beckedahl, J.	Real-Time Digital Signal
	Kammeraad, A. Friensehner, J.	Processing for HPGe Detectors
	Blair, B. Payne, and A. Goldberger	
	LLNL and Lockheed Martin	
11:00-11:20	Neil M. Barss, R. Thomas Bell III,	²³⁹ Pu Intercomparison of ICP-MS,
	David E. McCurdy, Leenu E.	TIMS and FTA at µBq levels
	Kuruvilla, and Kenneth G.W. Inn	
	DOE, OIHP (EH-63), YAEL, NIST	
11:20-11:40	D.P. Diprete, S.F. Peterson, and	Gross Alpha Measurements using
	R.A. Sigg	Extraction Chromatography in
	Westinghouse Savannah River	Conjunction with Pulse Shape
	Company	Analysis on Savannah River Site
		High Activity Waste Solutions
11:40-12:00	Zenon Pawlak and Gabriela	A Comparison of the Inductively
	Kuswik-Rabiega	Coupled Plasma Mass
	Utah Department of Health	Spectroscopy /ICP/MS/ and
		Radiochemical Techniques of Total
		Uranium in Ground Water and
		Environmental Water Samples
12:00	End of Conference	

Final Program: Session 12 (Concurrent with Session 11) Environmental Studies-2

Chair: Gary Kramer, Canada Radiation Protection Bureau Pinkney Room

Day/Time	Author/Co-Authors Affiliation	Title
Thursday		
10:00-10:20	Walter Kubilius, Brian Crandall, Terrence Killeen, and James Westmoreland Westinghouse Savannah River Company and Environmental Physics, Inc.	Causes of Radiological False Positives in Environmental Soil and Groundwater Data From Commercial Laboratories
10:20-10:40	Bahman Parsa NJ State Department of Health	Contribution of Short-Lived Radionuclides to Alpha-Particle Radioactivity in Drinking Water and Their Impact on the Safe Drinking Water Act Regulations
10:40-11:00	R. Garcia, R. Rosson, and B. Kahn Georgia Institute of Technology	Microwave-Assisted Decomposition of Environmental Samples Coupled to Classical Methods of Separation and Purification for the Analysis of ⁹⁰ Sr and ^{238,239} Pu
11:00-11:20	J.H. Aldstadt, K.A. Orlandini, L.L. Smith, K.M. Hoffmann, <u>D.C. Seely</u> , and I.R.Shaw-Epperson ANL, 3M Company, and Advance Possis, Inc.	A System for Rapid Water Sampling and Analysis Based on Empore Membranes and Solid Scintillation Spectrometry
11:20-11:40	Robert C. Hochel Westinghouse Savannah River Co.	Automated Radiological Scanning of Potentially Contaminated Railroad Crossties for Free-Release or Disposal
11:40	End of Conference	